

CLAIMS

1. A dose indicator (A) for a fluid dispenser device (B),
said indicator being characterized in that it comprises a
rotary counting wheel (10) that is displaceable in
5 rotation, and a slide member (20) that is displaceable in
translation, said counting wheel including indicator
means (15), indicating the number of doses dispensed or
the number of doses still to be dispensed, and co-
operating with a display opening (25) provided in said
10 slide member (20), said rotary counting wheel (10)
including a hollow profile (18) co-operating with a
projection (28) of said slide member (20), the shape of
said hollow profile (18) being such that at least some
rotations of said rotary counting wheel (10) cause said
15 slide member (20) to be displaced in translation, thereby
modifying the position of said slide member (20) relative
to said counting wheel (10), and in that the indicator
further comprises actuator means comprising two flexible
elements (32, 33) of different flexibilities, the more
20 flexible element (32) enabling said rotary counting wheel
(10) to be rotated at the start of the actuation stroke
of the dispenser device (B), and the less flexible
element (33) enabling said actuation stroke to be
continued after said counting wheel (10) has been
25 rotated.

2. An indicator according to claim 1, in which said
indicator means (15) follow said hollow profile (18) at
least in part.
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3. An indicator according to claim 1 or claim 2, in which
the shape of said hollow profile (18) is irregular so
that dose indication is progressive.

35 4. An indicator according to any preceding claim, in
which said hollow profile (18) is spiral-shaped at least
in part.

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5. An indicator according to any preceding claim, in which said rotary counting wheel (10) and said slide member (20) are disposed in a cover (40) including a display window (45) co-operating with the display opening (25) of the slide member (20).
6. An indicator according to any preceding claim, in which said rotary counting wheel (10) is a thin disk including a set of teeth (19), said set of teeth (19) co-operating with actuator means which are designed to cause said rotary disk (10) to turn.
7. An indicator according to claim 6, in which said actuator means include a drive element (31) secured to a ring (30) surrounding said set of teeth (19), said drive element (31) coming to co-operate with said set of teeth (19) each time a dose is dispensed.
8. An indicator according to claim 7, in which said ring (30) includes anti-return means (36, 37) preventing said rotary disk (10) from turning in the direction opposite to the direction in which it is turned by said drive element (31).
9. An indicator according to claim 7 or claim 8, in which said actuator means include at least one flexible tab (31).
10. An indicator according to any one of claims 7 to 9, in which said actuator means include a transmission element (34) which is designed to co-operate with said fluid dispenser device (B) each time said device is actuated, said transmission element (34) also co-operating with said drive element (31) so as to cause said rotary disk (10) to turn.

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11. An indicator according to claim 10, in which said transmission element (34) is a shoulder secured to said drive element (31), and co-operating with a portion (54) of the fluid dispenser device (B) which moves during
5 actuation.

12. An indicator according to any one of claims 5 to 11, in which the rotary counting wheel (10), the slide member (20), the actuator means (31, 34, 35), and the cover (40)
10 form a unit which can be assembled in a fluid dispenser device (B).

13. An indicator according to any preceding claim, in which the actuator means include a flexible tab (31)
15 comprising a first flexible-tab portion (32) and a second flexible-tab portion (33) that is more rigid than the first tab portion (32), the first tab portion (32) supporting an actuator pin (35) which is designed to co-operate with the set of teeth (19) of said rotary
20 counting wheel (10) each time the device is actuated.

14. An indicator according to claim 13, in which said ring (30) includes an abutment (39) which is designed to co-operate with a blocking element (38) secured to said
25 flexible tab (31) so as to limit the rotation of said rotary counting wheel (10).

15. An indicator according to claim 14, in which the more rigid, second tab portion (33) is designed to flex as
30 soon as the blocking element (38) is blocked by the abutment means (39) of the ring (30).

16. An indicator according to any one of claims 13 to 15, in which the rotary counting wheel (10) is rotated by the
35 first part of the actuation stroke of the fluid dispenser device (B), the flexion of the more rigid, second tab portion enabling said actuation stroke of the fluid

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dispenser device (B) to be continued, despite the blocking element (38) being blocked by the abutment means (39).

- 5 17. An indicator according to any preceding claim, in which said indicator means (15) are numbers and/or symbols and/or colors.
- 10 18. A fluid dispenser device (B), comprising a fluid reservoir (51) and a dispenser member (52), such as a pump or a valve, mounted on said reservoir (51), said device being characterized in that it further comprises a dose indicator (A) according to any preceding claim.
- 15 19. A device according to claim 18, in which the dose indicator (A) is actuated by a portion (54) of the reservoir (51) which is displaced while the device (B) is being actuated, and which co-operates with a transmission element (34) of said indicator (A).

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This translation of an amended page covers the amendments made in the original. However, the page breaks match the translation, so that this page is also a replacement page that fits in with the remainder of the translation.